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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,919	01/26/2004	MICHAEL Y. LIANG	1918	
39773 MICHAEL Y.	7590 06/15/2007 LIANG		EXAM	INER ,
218 CREEDON CIRCLE			CHORBAJI, MONZER R	
ALAMEDA, C	CA 94502		ART UNIT	PAPER NUMBER
			1744	
		•		
			MAIL DATE	DELIVERY MODE
			06/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/707,919	LIANG, MICHAEL Y.				
Office Action Summary	Examiner	Art Unit				
	MONZER R. CHORBAJI	1744				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a reposite apply and will expire SIX (6) MONT 36(a). Cause the application to become ABA	ATION. Oly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 Ap	oril 2007					
3) Since this application is in condition for allowar		rs, prosecution as to the merits is				
closed in accordance with the practice under E						
		,				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) <u>2-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1 is/are rejected.	·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on <u>26 January 2004</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the		• •				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 		l 19(a)-(d) or (f).				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Su	The state of the s				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		Mail Date ormal Patent Application				
Paper No(s)/Mail Date <u>1/26/04</u> .	6) Other:	· ·				

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DETAILED ACTION

This non-final action is in response to the election/restriction response received on 4/19/07

Election/Restrictions

- 1. Applicant's election without traverse of air sterilization method using ultraviolet light in the reply filed on 04/19/2007 is acknowledged.
- 2. Claims 2-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 04/19/2007.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 4; Applicant states the limitation of "to remove large particles". The disclosure does not provide dimensional information with regard to what constitute "large particle" and one of ordinary skill in the art upon reading the specification would not understand what "large" represents since there is no reference in art to measure against. Also, in line 8, Applicants recites the feature "or other similar shapes of paths". However, the disclosure does not provide examples that illustrate what represents "other similar shapes of paths" for one ordinary skill in the art to understand this feature. Correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Hirai et al (U.S.P.N. 4,990,311).

Hirai discloses a method for deodorizing fluent material in large volume by radiation of ultraviolet rays (figure 5:22) where the method comprises the steps: forcing fluent material (figure 5:62) through filter (figure 3:50 and col.4, lines 49-52), using circuitous sterilizing chambers (gas flowing in the upper part of diffuser plate 41 in chamber 71 then the gas flows downward through connecting duct 81 into chamber 72, then flowing upward through the upper part of diffuser plate 42, then flowing downward again and exiting through discharge pipe 84 as shown in figure 3) with sinuous path to contain the air/gas mixture, employing intense UV irradiation (col.7, lines 33-38 and lines 47-48) to kill all live microorganisms in the air/gas mixture passing through chamber (figure 3:71 and 72), converting ozone in air into oxygen when dealing with air (figure 3:50 where this structure has two functions, one as a filter and the other as an ozone decomposing catalyst. See col.4, lines 49-52) and discharging sterilized air/gas mixture out of the second chamber (figure 3:72 and 84). As to the limitation of sterilizing fluent material, see MPEP 2112, II.

Conclusion

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MONZER R. CHORBAJI whose telephone number is (571) 272-1271. The examiner can normally be reached on M-F 9:00-5:30.

- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GLADYS J. CORCORAN can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MRC

GLADYS OP CORCORAN SUPERVISORY PATENT EXAMINER

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